Format No. CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-201910-18-29** **Date: 03-10-2019**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Srirampura Cross Road in Ward No.05 Byatarayanapura Sub Division.
Agency	:	Sri.S.K. Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560 064.
Customer's Reference	:	BBMP/EE/BTP/WO/179/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-09-2019
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11) 1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4 4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	01-10-2019
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.64	–
2	Finess by Air permeablity method (m^2/kg,Min)	296.2	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	146 minutes	Not less than 30 minutes
6	Final Setting time	292 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2.5mm	Not more than 10 mm

Note:

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-201910-18-29** **Date: 09-10-2019**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Srirampura Cross Road in Ward No.05 Byatarayanapura Sub Division.
Agency	:	Sri.S.K. Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560 064.
Customer's Reference	:	BBMP/EE/BTP/WO/179/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-09-2019
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	01-10-2019
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
	7 Days	39.0N/mm^2	Not less than 37 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Date: 03-10-2019

Lab ID	:	**CP-201910-18-29**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Srirampura Cross Road in Ward No.05 Byatarayanapura Sub Division.
Agency	:	Sri.S.K. Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560 064.
Customer's Reference	:	BBMP/EE/BTP/WO/179/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	30-09-2019
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	30-09-2019

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	429	429	2.9	97.1	90-100
3	20 mm	7195	7624	50.8	49.2	30-70
4	10 mm	3859	11483	76.6	23.4	10-35
5	4.75 mm	2953	14436	96.2	3.8	0-5
6	Pan	564	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-201910-18-29** **Date: 03-10-2019**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.7	
3	Specific Gravity	2.45	–
4	Bulk Density(Loose) (Kg/l)	1.47	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.19	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-201910-18-29** **Date: 03-10-2019**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Srirampura Cross Road in Ward No.05 Byatarayanapura Sub Division.
Agency	:	Sri.S.K. Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560 064.
Customer Reference	:	BBMP/EE/BTP/WO/179/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-09-2019
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	30-09-2019

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	155	155	3.1	96.9	90-100
3	10 mm	3344	3499	70.0	30.0	25-55
4	4.75 mm	1377	4876	97.5	2.5	0-10
5	Pan	124	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-201910-18-29** **Date: 03-10-2019**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.47	–
5	Bulk Density(Compacted) (Kg/l)	1.54	–
6	Water Absorption(%)	0.23	–
7	Aggregate crushing Value(%)	23.7	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-201910-18-29 **Date: 03-10-2019**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Road and Drains at Srirampura Cross Road in Ward No.05 Byatarayanapura Sub Division.

Agency : Sri.S.K. Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560 064.

Customer's Reference : BBMP/EE/BTP/WO/179/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-09-2019

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 30-09-2019

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	—	—	—	—

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-201910-18-29** **Date: 03-10-2019**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 16/10/2019

Lab ID	:	**CP-201910-18-29**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Srirampura Cross Road in Ward No.05 Byatarayanapura Sub Division.
Agency	:	Sri.S.K. Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560 064.
Customer's Reference	:	BBMP/EE/BTP/WO/179/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-10-2019
Customer ID	:	RMC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC	M20	09/10/2019	16/10/2019	150.10 X 151.70 X 151.06	22770	8.934	429.9	18.9	18.6
2	RMC	M20	09/10/2019	16/10/2019	151.73 X 151.34 X 150.73	22962	8.849	420.9	18.3	
3	RMC	M20	09/10/2019	16/10/2019	151.98 X 150.84 X 149.75	22924	8.095	426.9	18.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 16/10/2019

Lab ID	:	**CP-201910-18-29**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Srirampura Cross Road in Ward No.05 Byatarayanapura Sub Division.
Agency	:	Sri.S.K. Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560 064.
Customer's Reference	:	BBMP/EE/BTP/WO/179/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-10-2019
Customer ID	:	RMC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC	M20	09/10/2019	16/10/2019	151.97 X 151.40 X 151.36	23008	8.934	418.4	18.2	18.5
2	RMC	M20	09/10/2019	16/10/2019	150.97 X 150.08 X 149.63	22658	8.849	427.5	18.9	
3	RMC	M20	09/10/2019	16/10/2019	149.85 X 151.72 X 149.83	22736	8.095	421.5	18.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-201910-18-29** **Date: 16/10/2019**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Road and Drains at Srirampura Cross Road in Ward No.05 Byatarayanapura Sub Division.

Agency : Sri.S.K. Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560 064.

Customer's Reference : BBMP/EE/BTP/WO/179/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-10-2019

Customer ID : RMC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC	M20	09/10/2019	16/10/2019	151.63 X 151.99 X 151.38	23046	8.934	437.3	19.0	18.7
2	RMC	M20	09/10/2019	16/10/2019	150.67 X 149.58 X 149.15	22536	8.849	413.0	18.3	
3	RMC	M20	09/10/2019	16/10/2019	150.35 X 150.94 X 149.49	22695	8.095	425.6	18.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 16/10/2019

Lab ID	:	**CP-201910-18-29**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Srirampura Cross Road in Ward No.05 Byatarayanapura Sub Division.
Agency	:	Sri S.K. Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560 064.
Customer's Reference	:	BBMP/EE/BTP/WO/179/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-10-2019
Customer ID	:	RMC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC	M20	09/10/2019	16/10/2019	150.35 X 151.30 X 150.79	22748	8.934	416.5	18.3	18.2
2	RMC	M20	09/10/2019	16/10/2019	149.09 X 149.31 X 150.26	22259	8.849	401.8	18.0	
3	RMC	M20	09/10/2019	16/10/2019	150.66 X 150.61 X 150.87	22690	8.095	414.9	18.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 16/10/2019

Lab ID	:	**CP-201910-18-29**
Customer	:	Assistant Executive Engineer. Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Srirampura Cross Road in Ward No.05 Byatarayanapura Sub Division.
Agency	:	Sri.S.K. Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560 064.
Customer's Reference	:	BBMP/EE/BTP/WO/179/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-10-2019
Customer ID	:	RMC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC	M20	09/10/2019	16/10/2019	149.63 X 151.80 X 151.62	22713	8.934	427.6	18.8	18.6
2	RMC	M20	09/10/2019	16/10/2019	150.07 X 151.59 X 151.58	22749	8.849	413.7	18.2	
3	RMC	M20	09/10/2019	16/10/2019	150.64 X 150.52 X 150.60	22676	8.095	424.9	18.7	

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